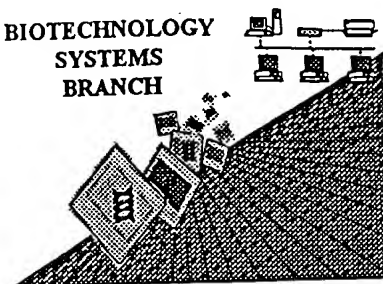


S. Zhou

RAW SEQUENCE LISTING ERROR REPORT

BIOTECHNOLOGY
SYSTEMS
BRANCH



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following CRF diskette:

Application Serial Number: 09/422 838

Art Unit / Team No. : 0/PE

Date Processed by STIC: 11/09/99

THE ATTACHED PRINTOUT EXPLAINS THE ERRORS DETECTED.

PLEASE BE SURE TO FORWARD THIS INFORMATION TO THE APPLICANTS BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANTS ALONG WITH A NOTICE TO COMPLY or,
- 2) CALLING APPLICANTS AND FAXING THEM A COPY OF THE PRINTOUT WITH A NOTICE TO COMPLY

THIS WILL INSURE THAT THE NEXT SUBMISSION RECEIVED FROM THEM WILL BE ERROR FREE.

IF YOU HAVE ANY FURTHER QUESTIONS, PLEASE CALL:

MARK SPENCER 703-308-4212

Raw Sequence Listing Error Summary

ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER: 09/422,838

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 _____ Wrapped Nucleics
The number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 2 _____ Wrapped Aminos
The amino acid number/text at the end of each line "wrapped " down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 3 _____ Incorrect Line Length
The rules require that a line not exceed 72 characters in length. This includes spaces.
- 4 _____ Misaligned Amino Acid Numbering
The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
- 5 _____ Non-ASCII
This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
- 6 _____ Variable Length
Sequence(s) _____ contain n's or Xaa's which represented more than one residue.
As per the rules, each n or Xaa can only represent a single residue.
Please present the maximum number of each residue having variable length and indicate in the (ix) feature section that some may be missing.
- 7 _____ PatentIn ver. 2.0 "bug"
A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequence(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence.
- 8 _____ Skipped Sequences (OLD RULES)
Sequence(s) _____ missing. If intentional, please use the following format for each skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X:
(i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:
This sequence is intentionally skipped

Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
- 9 _____ Skipped Sequences (NEW RULES)
Sequence(s) _____ missing. If intentional, please use the following format for each skipped sequence.
<210> sequence id number
<400> sequence id number
000
- 10 _____ Use of n's or Xaa's (NEW RULES)
Use of n's and/or Xaa's have been detected in the Sequence Listing.
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 11 _____ Use of <213>Organism (NEW RULES)
Sequence(s) _____ are missing this mandatory field or its response.
- 12 _____ Use of <220>Feature (NEW RULES)
Sequence(s) _____ are missing the <220>Feature and associated headings.
Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"
Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)
- 13 _____ PatentIn ver. 2.0 "bug"
Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).
Instead, please use "File Manager" or any other means to copy file to floppy disk.

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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/422,838

DATE: 11/09/1999
TIME: 11:02:24

Input Set: I422838.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

*these numeric identifiers and their responses are mandatory.
Please see item 13 on Ena summary sheet for a possible
exploration of missing items*

E--> 1 <110>
E--> 2 <120>
W--> 3 <130>
4 <140> US/09/422,838
5 <141> 1999-10-22
E--> 6 <160> *see item 13 on Ena summary sheet*
7 <170> PatentIn Ver. 2.0
8 <210> 1
9 <211> 14
10 <212> PRT
11 <213> Artificial Sequence
12 <220>
13 <223> Description of Artificial Sequence: peptide
14 <400> 1
15 Ile Glu Gly Pro Thr Leu Arg Gln Trp Leu Ala Ala Arg Ala
16 1 5 10
17 <210> 2
18 <211> 14
19 <212> PRT
20 <213> Artificial Sequence
21 <220>
22 <223> Description of Artificial Sequence: peptide
23 <220>
24 <223> Peptide is a subunit of a homodimer: Subunits in
25 the dimer are covalently bonded at each carboxy
26 terminus through peptide linkage with
27 NH₂-CH₂-CH₂-CH₂-CH₂-CH(CONH₂)-NH-CO-CH₂-CH₂-NH₂
28 <400> 2
29 Ile Glu Gly Pro Thr Leu Arg Gln Trp Leu Ala Ala Arg Ala
30 1 5 10
31 <210> 3
32 <211> 684
33 <212> DNA
34 <213> Artificial Sequence
35 <220>
36 <223> Description of Artificial Sequence:
37 oligonucleotide
38 <400> 3
39 atggacaaaa ctacacatg tccacctgt ccagctccgg aactcctggg gggaccgtca 60
40 gtcttctct tcccccaaa acccaaggac accctcatga tctcccgac ccctgaggtc 120
41 acatgcgtgg tgggtggacgt gagccacgaa gaccctgagg tcaagttcaa ctggtacgtg 180
42 gacggcgtgg aggtgcataa tgccaagaca aagccgcggg aggagcagta caacagcacg 240
43 taccgtgtgg tcagcgtcct caccgtcctg caccaggact ggctgaatgg caaggagtac 300
44 aagtgcgaag tctccaacaa agccctccca gcccccatcg agaaaaccat ctccaaagcc 360

Does Not Comply
Corrected Diskette Needed

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RAW SEQUENCE LISTING PATENT APPLICATION US/09/422,838

DATE: 11/09/19
TIME: 11:02:24

Input Set: I422838.RAW

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45 aaagggcagc cccgagaacc acaggtgtac accctgcccc catcccggga tgagctgacc 420
46 aagaaccagg tcagcctgac ctgcctggtc aaaggcttct atcccagcga catcgccgtg 480
47 gagggggaga gcaatgggca gccggagaac aactacaaga ccacgcctcc cgtgctggac 540
48 tccgacggct ccttcttctt ctacagcaag ctccacgtgg acaagagcag gtggcagcag 600
49 gggaacgtct tctcatgctc cgtgatgcat gaggtcttgc acaaccacta cagcgagaag 660
50 agcctctccc tgtctccggg taaa 684
51 <210> 4
52 <211> 684
53 <212> DNA
54 <213> Artificial Sequence
55 <220>
56 <223> Description of Artificial Sequence:
57 oligonucleotide
58 <400> 4
59 tacctgtttt gagtgtgtac aggtggaaca ggtcgaggcc ttgaggaccc ccctggcagt 60
60 cagaaggaga agggggggtt tgggttcctg tgggagtact agagggcctg gggactccag 120
61 tgtacgcacc accacctgca ctcggtgctt ctgggactcc agttcaagtt gaccatgcac 180
62 ctgccgcacc tccacgtatt acggttctgt ttcggcgccc tctctgctat gttgtcgtgc 240
63 atggcacacc agtcgcagga gtggcaggac gtggtcctga ccgacttacc gttcctcatg 300
64 ttacagttcc agaggttggt tggggagggt cgggggtagc tcttttggtg gaggtttcgg 360
65 tttcccgtcg gggctcttgg tgtccacatg tgggacgggg gtagggccct actcgactgg 420
66 ttcttggtcc agtcggactg gacggaccag tttccgaaga tagggctcgt gtagcggcac 480
67 ctcacctctt cgttaccogt cggcctcttg ttgatgttct ggtgcggagg gcacgacctg 540
68 aggctgccga ggaagaagga gatgtcgttc gagtggcacc tgttctcgtc caccgtcgtc 600
69 cccttgca gaagtagcag gcaactacgta ctccgagacg tgttggtgat gtgcgtcttc 660
70 tcggagaggg acagaggccc attt 684
71 <210> 5
72 <211> 228
73 <212> PRT
74 <213> Artificial Sequence
75 <220>
76 <223> Description of Artificial Sequence: peptide
77 <400> 5
78 Met Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro Glu Leu Leu
79 1 5 10 15
80 Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys Asp Thr Leu
81 20 25 30
82 Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val Asp Val Ser
83 35 40 45
84 His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp Gly Val Glu
85 50 55 60
86 Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr Asn Ser Thr
87 65 70 75 80
88 Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp Trp Leu Asn
89 85 90 95
90 Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu Pro Ala Pro
91 100 105 110
92 Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg Glu Pro Gln
93 115 120 125
94 Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr Lys Asn Gln Val

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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/422,838DATE: 11/09/19
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Input Set: I422838.RAW

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95          130          135          140
96      Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp Ile Ala Val
97          145          150          155          160
98      Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys Thr Thr Pro
99          165          170          175
100     Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser Lys Leu Thr
101          180          185          190
102     Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser Cys Ser Val
103          195          200          205
104     Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser Leu Ser Leu
105          210          215          220
106     Ser Pro Gly Lys
107          225
108     <210> 6
109     <211> 8
110     <212> PRT
111     <213> Artificial Sequence
112     <220>
113     <223> Description of Artificial Sequence: peptide
114     <400> 6
115         Gly Gly Gly Lys Gly Gly Gly Gly
116             1             5
117     <210> 7
118     <211> 8
119     <212> PRT
120     <213> Artificial Sequence
121     <220>
122     <223> Description of Artificial Sequence: peptide
123     <400> 7
124         Gly Gly Gly Asn Gly Ser Gly Gly
125             1             5
126     <210> 8
127     <211> 8
128     <212> PRT
129     <213> Artificial Sequence
130     <220>
131     <223> Description of Artificial Sequence: peptide
132     <400> 8
133         Gly Gly Gly Cys Gly Gly Gly Gly
134             1             5
135     <210> 9
136     <211> 4
137     <212> PRT
138     <213> Artificial Sequence
139     <220>
140     <223> Description of Artificial Sequence: peptide
141     <400> 9
142         Gly Pro Asn Gly
143             1
144     <210> 10

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 RAW SEQUENCE LISTING
 PATENT APPLICATION US/09/422,838

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145 <211> 32
146 <212> PRT
147 <213> Artificial Sequence
148 <220>
149 <223> Description of Artificial Sequence: peptide
150 <400> 10
151   Ile Glu Gly Pro Thr Leu Arg Gln Trp Leu Ala Ala Arg Ala Gly Pro
152       1             5             10             15
153   Asn Gly Ile Glu Gly Pro Thr Leu Arg Gln Trp Leu Ala Ala Arg Ala
154               20             25             30
155 <210> 11
156 <211> 36
157 <212> PRT
158 <213> Artificial Sequence
159 <220>
160 <223> Description of Artificial Sequence: peptide
161 <220>
162 <223> Cyclic peptide; Secondary structure is maintained
163     by disulfide bond between intramolecular Cys
164     residues at positions 9 and 31
165 <400> 11
166   Ile Glu Gly Pro Thr Leu Arg Gln Cys Leu Ala Ala Arg Ala Gly Gly
167       1             5             10             15
168   Gly Gly Gly Gly Gly Gly Ile Glu Gly Pro Thr Leu Arg Gln Cys Leu
169               20             25             30
170   Ala Ala Arg Ala
171               35
172 <210> 12
173 <211> 36
174 <212> PRT
175 <213> Artificial Sequence
176 <220>
177 <223> Description of Artificial Sequence: peptide
178 <400> 12
179   Ile Glu Gly Pro Thr Leu Arg Gln Cys Leu Ala Ala Arg Ala Gly Gly
180       1             5             10             15
181   Gly Gly Gly Gly Gly Gly Ile Glu Gly Pro Thr Arg Leu Gln Cys Leu
182               20             25             30
183   Ala Ala Arg Ala
184               35
185 <210> 13
186 <211> 36
187 <212> PRT
188 <213> Artificial Sequence
189 <220>
190 <223> Description of Artificial Sequence: peptide
191 <400> 13
192   Ile Glu Gly Pro Thr Leu Arg Gln Ala Leu Ala Ala Arg Ala Gly Gly
193       1             5             10             15
194   Gly Gly Gly Gly Gly Gly Ile Glu Gly Pro Thr Leu Arg Gln Ala Leu

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195		20
196	Ala Ala Arg Ala	
197	35	

25

30

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VERIFICATION SUMMARY
PATENT APPLICATION US/09/422,838

DATE: 11/09/19
TIME: 11:02:24

Input Set: I422838.RAW

Line	Error/Warning	Original Text
------	---------------	---------------

- | | | |
|---|--|--|
| 1 | E Response to "Applicant" Name is Missing | |
| 2 | E Response to "Title of Invention" Missing | |
| 3 | W Response to "File Reference" is Missing | |
| 6 | E # of Seq. 0 Not Equal Actual 46 | |